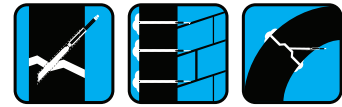


SealBoss®

FlexGel[®] Hydrophilic NSF LV Gel



Product Data Sheet



SealBoss® FlexGel System Applications

- Stop Water Infiltration
- Curtain & Bladder Injection Methods
- Sewers, Manholes, Utility Boxes, Tunnels, Dams
- Sealing Joints, Pipe joints, Pipe Intrusions
- Soil Stabilization

Water Activated, Flexible, Hydrophilic Injection Gel / Foam

- SealBoss® Product-Pump-Packer System Solution
- Deep Penetration - 70 CPS SLV
- Full Cure in Dry & Damp Conditions
- Flexible, Moisture Insensitive, 2 Comp. Formula
- Unregulated For Transport
- This Product is for Professional Use

Product Description

SealBoss® FlexGel Hydrophilic NSF LV Gel is a low-viscosity, single component hydrophilic polyurethane grout offering excellent penetration properties, superior strength and durability.

At a mixing ratio of 1 part SealBoss® FlexGel to 10 parts water by volume, the mixed product has a super low viscosity of 50 cps. The product is capable of incorporating large amounts of water into itself, thereby forming a waterproofing gel. The ability of SealBoss® FlexGel to swell and increase in volume due to water absorption is one of the important features that differentiate hydrophilic grouts from their hydrophobic counterparts. SealBoss® FlexGel is certified for water contact in accordance with NSF standard 61, for contact with potable water.

SealBoss® FlexGel can either react to a foam or a gel on contact with water based on the mixing ratio. The product forms a flexible gel at product to water ratios from 1:4 to 1:15. Less water results in a stronger gel. The gel time is about 1 to 3 minutes varying with temperature and water saturation. At low product to water ratios of 1:1 to 1:2 SealBoss® FlexGel reacts to a flexible and closed cell foam under pressure. To achieve most satisfying and permanent results, a combination of SealBoss® FlexGel with other systems of our product line may be advised. Ask your SealBoss® technician for details. The product is for professional use.

Installation Guidelines

Multi ratio pump: For best results, SealBoss® FlexGel should be injected with a multi ratio pump at preset product to water ratio to achieve the desired gel consistency and properties.

Single component pump: The product may also be applied with single component injection equipment. The presence of sufficient water in the substrate is necessary for the product to form a gel. It may be advisable to introduce water prior to injection. In areas of very little water content and little counter pressure the product may expand to a foam.

For curtain / bladder injection methods behind below grade structures it is recommended to drill through the structure in a pattern that is determined by the physical properties of the soil.

To create a standard checkerboard pattern, holes are drilled 50 cm (two feet) apart from each other in a horizontal line. The next step is to drill holes in a line 50 cm above the first line in the same fashion but staggered. Begin injection at the highest point. Each packer should be injected until material

penetrates the surrounding drill holes. Patterns may vary according to conditions on the jobsite.

Drill Pattern for Curtain / Bladder Injection Method:



All equipment, pumps and hoses must be dry. Avoid moisture contact with the mixture to prevent premature reaction. If product foams while pumping, immediately shut down the machine and flush with a cleaner to avoid built up and clogging of the equipment.

Maintenance of Equipment

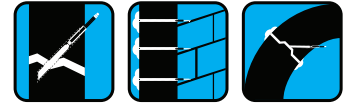
Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove. **SealBoss® R70 Pump Flush** is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.

Health and Safety

Protect your health! always use safety gear in compliance with OSHA and all applicable local and job-site regulations While working with products. Handling of this product may result in spills, splashes, and airborne substances. Wear appropriate safety goggles, gloves and safety clothing at all times. During the pressure injection process a full face shield is advised for anybody within reach of product spill or blowout. Consider property in proximity of the application to prevent loss or damage. Protect jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.

SealBoss®

FlexGel Hydrophilic NSF LV Gel



Product Data Sheet



TECHNICAL DATA

Appearance
Solids
Density, g/ml
Flash Point, °C / °F

Viscosity Mixed With Water,
cps at 75°F / 25°C
Water:Gel 10:1
Water:Gel 5:1
Viscosity Gel Component,
cps at 40C-25°C 400-500 cps
Corrosiveness
Solubility in Water
Components
Packaging

Storage

Induction Time, 20°C/68°F
Gel time, 25°C/70°F
Properties:
Physical Form
Water Ratio, approx.
Tensile Strength, psi
Bonding Strength
Tensile Elongation, %
Die-C
Shrinkage

NSF/ANSI 61 Certified

FLEXGEL

Amber
100%
1.1
>225

ASTM D 2369
ASTM D 4659
ASTM D 93

50 cps
100 cps

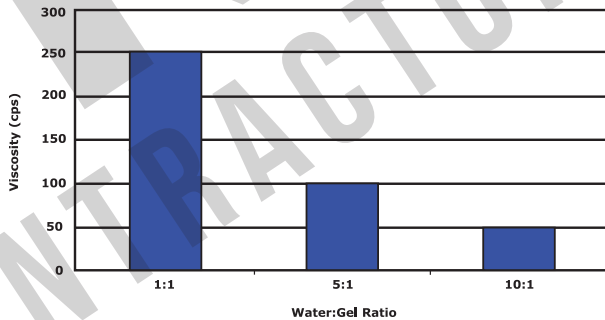
ASTM D 1638-74
ASTM D 1638-74

ASTM D 1638-74
Non-Corrosive
Gel
Polyurethane Resin
5 gal
55 gal

1 year, unopened containers at 15- 30°C
58-85°F. Store indoors.
<30 sec
approx. 100 sec

	Foam	Gel	Gel	
Water Ratio, approx.	1:1	1:5	1:8	
Tensile Strength, psi	430	165	150	ASTM D3574
Bonding Strength	300-380	120-150	120-140	
Tensile Elongation, %	462	>1250	>1250	ASTMD3574
Die-C	49	43	43	
Shrinkage	<1%-10% variable with water content & foam or gel reaction			

SealBoss® FlexGel Viscosity Ranges



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